

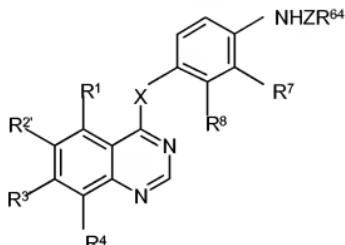
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-19. (Cancelled)

20. (Currently amended) A compound of formula (IID)



or a salt thereof,

where X is NH;

Z is C(O);

R⁶⁴ is optionally substituted aryl selected from phenyl optionally substituted with up to 5 groups selected from nitro, halo, carboxy, cyano, C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₄alkylthio, acetoxy, acetamido, hydroxy, aminosulphonyl, C₁₋₄alkylsulphonyl, and trifluoromethyl[.]] arC₄₋₁₀alkyl, or
~~arC₄₋₁₀alkyloxy wherein aryl rings in the substituents may themselves be substituted with halo, nitro or C₁₋₄alkyl;~~

optionally substituted C₃₋₆cycloalkyl selected from optionally substituted cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl any of which may be optionally substituted with nitro, halo, carboxy, cyano, C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₄alkylthio, acetoxy, acetamido, hydroxy, aminosulphonyl, C₁₋₄alkylsulphonyl, or trifluoromethyl[.]] arC₁₋₁₀alkyl, arC₄₋₁₀alkyloxy, or aryl wherein aryl rings in the substituents may themselves be substituted with halo, nitro or C₁₋₄alkyl;

optionally substituted arC₁₋₁₀alkyl selected from optionally substituted benzyl, phenylethyl or phenylpropyl, wherein the phenyl ring is optionally substituted with up to 5 groups selected from nitro, halo, carboxy, cyano, C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₄alkylthio, acetoxy, acetamido, hydroxy, aminosulphonyl, C₁₋₄alkylsulphonyl, and trifluoromethyl[.]] arC₁₋₁₀alkyl, or arC₁₋₁₀alkyloxy wherein aryl rings in the substituents may themselves be substituted with halo, carboxy, trifluoromethyl, nitro or C₁₋₄alkyl;

optionally substituted heterocycl selected from pyridyl, pyrazine, pyrimidinyl, pyrrolidino, furyl, tetrahydrofuryl, oxazolyl, morpholino, thiadiazole, indolyl, quinolinyl, isoquinolinyl, pyrazolyl, methylenedioxybenzyl, thiophene and benzothiophene, all of which may be optionally substituted with one or more groups selected from nitro, halo, carboxy, cyano, C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₄alkylthio, acetoxy, acetamido, hydroxy, aminosulphonyl, C₁₋₄alkylsulphonyl, and trifluoromethyl[[,]] arC₄₋₁₀alkyl, or arC₄₋₁₀alkyloxy wherein aryl rings in the substituents may themselves be substituted with halo, carboxy, trifluoromethyl, nitro or C₁₋₄alkyl; optionally substituted C₁₋₁₀alkyl where optional substituents for C₁₋₁₀alkyl include amino, mono- or di-C₁₋₄alkylamino, hydroxy, C₁₋₄alkoxy, heterocycl selected from thiophene, tetrahydrothiophene-1,1-dioxide, pyrrolidino, morpholino, furyl and tetrahydrofuryl, C₁₋₄alkoxy, acetamido, aryloxy, alkylC₁₋₄thio, areyl aryl where the aryl ring may itself be substituted with halo, carboxy, trifluoromethyl, nitro, carboxy or trifluoromethyl, C₃₋₁₀cycloalkyl or C₃₋₁₀cycloalkenyl; or optionally substituted C₂₋₁₀alkenyl or C₂₋₁₀alkynyl where optional substituents for C₂₋₁₀alkenyl or C₂₋₁₀alkynyl include nitro, halo, carboxy, cyano, C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₄alkylthio, acetoxy, acetamido, hydroxy, aminosulphonyl, C₁₋₄alkylsulphonyl, trifluoromethyl, arC₄₋₁₀alkyl aralkyl, or arC₄₋₁₀alkyloxy aralkyloxy wherein aryl rings in the substituents may themselves be substituted with halo, carboxy, trifluoromethyl, nitro or C₁₋₄alkyl; or such groups are substituted by aryl, where the aryl ring may itself be substituted with halo, nitro, carboxy, trifluoromethyl; R⁷ and R⁸ are independently selected from hydrogen, halo, C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₄alkoxymethyl, di(C₁₋₄alkoxy)methyl, C₁₋₄alkanoyl, trifluoromethyl, cyano, amino, C₂₋₅alkenyl, C₂₋₅alkynyl, a phenyl group, a benzyl group or a 5-6-membered heterocyclic group with 1-3 heteroatoms, selected independently from O, S and N, which heterocyclic group may be aromatic or non-aromatic and may be saturated, and linked via a ring carbon or nitrogen atom, or unsaturated, and linked via a ring carbon atom, and which phenyl, benzyl or heterocyclic group may bear on one or more ring carbon atoms up to 5 substituents selected from hydroxy, halogeno, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkanoyloxy, trifluoromethyl, cyano, amino, nitro, C₂₋₄alkanoyl, C₁₋₄alkanoylamino, C₁₋₄alkoxycarbonyl, C₁₋₄alkylsulphonyl, C₁₋₄alkylsulphiny, C₁₋₄alkylsulphonyl, carbamoyl, N-C₁₋₄alkylcarbamoyl, N,N-di(C₁₋₄alkyl)carbamoyl, aminosulphonyl, N-C₁₋₄alkylaminosulphonyl, N,N-di(C₁₋₄alkyl)aminosulphonyl, C₁₋₄alkylsulphonylamin, and a saturated heterocyclic group selected from morpholino, thiomorpholino, pyrrolidinyl, piperazinyl, piperidinyl, imidazolidinyl and pyrazolidinyl, which saturated heterocyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno,

C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkanoyloxy, trifluoromethyl, cyano, amino, nitro and C₁₋₄alkoxycarbonyl, and

where R¹, R² and R⁴ are independently selected from halo, cyano, nitro, or -X¹R¹⁵, wherein X¹ represents a direct bond, -O-, -CH₂-, -OCO-, carbonyl, -S-, -SO-, -SO₂-, -NR¹⁶CO-, -CONR¹⁶-, -SO₂NR¹⁶-, -NR¹⁷SO₂- or -NR¹⁸-, wherein R¹⁶, R¹⁷ and R¹⁸ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl, and R¹⁵ is selected from one of the following groups: 1') hydrogen or C₁₋₅alkyl which may be unsubstituted or which may be substituted with one or more groups selected from hydroxy, fluoro or amino;

2') C₁₋₅alkylX²COR¹⁹ wherein X² represents -O- or -NR²⁰-, in which R²⁰ represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl, and R¹⁹ represents C₁₋₃alkyl, -NR²¹R²² or -OR²³, wherein R²¹, R²² and R²³ which may be the same or different each represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl;

3') C₁₋₅alkylX³R²⁴ wherein X³ represents -O-, -S-, -SO-, -SO₂-, -OCO-, -NR²⁵CO-, -CONR²⁶-, -SO₂NR²⁷-, -NR²⁸SO₂- or -NR²⁹-, wherein R²⁵, R²⁶, R²⁷, R²⁸ and R²⁹ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl, and R²⁴ represents hydrogen, C₁₋₃alkyl, cyclopentyl, cyclohexyl or a 5-6-membered saturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which C₁₋₃alkyl group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno and C₁₋₄alkoxy and which cyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, C₁₋₄alkyl, C₁₋₄hydroxyalkyl and C₁₋₄alkoxy;

4') C₁₋₅alkylX⁴C₁₋₅alkylX⁵R³⁰ wherein X⁴ and X⁵ which may be the same or different are each -O-, -S-, -SO-, -SO₂-, -NR³¹CO-, -CONR³²-, -SO₂NR³³-, -NR³⁴SO₂- or -NR³⁵-, wherein R³¹, R³², R³³, R³⁴ and R³⁵ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl, and R³⁰ represents hydrogen or C₁₋₃alkyl;

5') R³⁶ wherein R³⁶ is a 5-6-membered saturated heterocyclic group, linked via carbon or nitrogen, with 1-2 heteroatoms, selected independently from O, S and N, which heterocyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, C₁₋₄alkyl, C₁₋₄hydroxyalkyl, C₁₋₄alkoxy, C₁₋₄alkoxyC₁₋₄alkyl and C₁₋₄alkylsulphonylC₁₋₄alkyl;

6') C₁₋₅alkylR³⁶ wherein R³⁶ is as defined in (5') above;

7') C₂₋₅alkenylR³⁶ wherein R³⁶ is as defined in (5') above;

8') C₂₋₅alkynylR³⁶ wherein R³⁶ is as defined in (5') above;

9') R³⁷ wherein R³⁷ represents a pyridone group, a phenyl group or a 5-6-membered aromatic heterocyclic group, linked via carbon or nitrogen, with 1-3 heteroatoms selected from O, N and S, which pyridone, phenyl or aromatic heterocyclic group may carry up to 5 substituents on an available carbon atom selected from hydroxy, halogeno, amino, C₁₋₄alkyl, C₁₋₄alkoxy,

C₁₋₄hydroxyalkyl, C₁₋₄aminoalkyl, C₁₋₄alkylamino, C₁₋₄hydroxyalkoxy, carboxy, trifluoromethyl, cyano, -CONR³⁸R³⁹ and -NR⁴⁰COR⁴¹, wherein R³⁸, R³⁹, R⁴⁰ and R⁴¹, which may be the same or different, each represents hydrogen, C₁₋₄alkyl or C₁₋₃alkoxyC₂₋₃alkyl;

10') C₁₋₅alkylR³⁷ wherein R³⁷ is as defined in (9') above;

11') C₂₋₅alkenylR³⁷ wherein R³⁷ is as defined in (9') above;

12') C₂₋₅alkynylR³⁷ wherein R³⁷ is as defined in (9') above;

13') C₁₋₅alkylX⁶R³⁷ wherein X⁶ represents -O-, -S-, -SO-, -SO₂-, -NR⁴²CO-, -CONR⁴³-, -SO₂NR⁴⁴-, -NR⁴⁵SO₂- or -NR⁴⁶-, wherein R⁴², R⁴³, R⁴⁴, R⁴⁵ and R⁴⁶ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl, and R³⁷ is as defined hereinbefore;

14') C₂₋₅alkenylX⁷R³⁷ wherein X⁷ represents -O-, -S-, -SO-, -SO₂-, -NR⁴⁷CO-, -CONR⁴⁸-, -SO₂NR⁴⁹-, -NR⁵⁰SO₂- or -NR⁵¹-, wherein R⁴⁷, R⁴⁸, R⁴⁹, R⁵⁰ and R⁵¹ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl, and R³⁷ is as defined in (9') above;

15') C₂₋₅alkynylX⁸R³⁷ wherein X⁸ represents -O-, -S-, -SO-, -SO₂-, -NR⁵²CO-, -CONR⁵³-, -SO₂NR⁵⁴-, -NR⁵⁵SO₂- or -NR⁵⁶-, wherein R⁵², R⁵³, R⁵⁴, R⁵⁵ and R⁵⁶ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl, and R³⁷ is as defined hereinbefore;

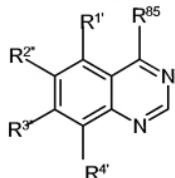
16') C₁₋₃alkylX⁹C₁₋₃alkylR³⁷ wherein X⁹ represents -O-, -S-, -SO-, -SO₂-, -NR⁵⁷CO-, -CONR⁵⁸-, -SO₂NR⁵⁹-, -NR⁶⁰SO₂- or -NR⁶¹-, wherein R⁵⁷, R⁵⁸, R⁵⁹, R⁶⁰ and R⁶¹ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl, and R³⁷ is as defined hereinbefore; and

17') C₁₋₃alkylX⁹C₁₋₃alkylR³⁶ wherein X⁹ and R³⁶ are as defined in (5') above;

and R³ is a group X¹R¹⁵ and R¹⁵ is as defined for R¹⁵ provided that it is other than methyl.

21-26. (Cancelled)

27. (Currently amended) A method for preparing a compound according to claim 20, which method comprises reacting a compound of formula (VIII)



(VIII)

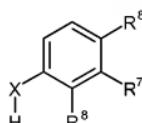
where R^1 is equivalent to the corresponding group of formula R^1 as defined in relation to the said compound of claim 20, or a precursor thereof;

R^2 is equivalent to the corresponding group of formula R^2 as defined in relation to the said compound of claim 20, or a precursor thereof;

R^3 is equivalent to the corresponding group of formula R^3 as defined in relation to the said compound of claim 20, or a precursor thereof;

R^4 is equivalent to the corresponding group of formula R^4 as defined in relation to the said compound of claim 20, or a precursor thereof;

and R^{85} is a leaving group, with a compound of formula (IX')



(IX')

where X , R^7 and R^8 are as defined in relation to the said compound according to claim 20, and R^{86} is a group of formula $NHZR^{64}$ where Z and R^{64} as are defined in relation to the said compound in claim 20; and thereafter if desired or necessary converting a precursor group R^1 , R^2 , R^3 , or R^4 to R^1 , R^2 , R^3 , or R^4 respectively to a different such group.

28-29. (Cancelled)

30. (Previously presented) A pharmaceutical composition comprising a compound of formula (IID) as defined in claim 20, or a pharmaceutically acceptable salt thereof, in combination with a pharmaceutically acceptable carrier.

31-33. (Cancelled)

34. (Previously presented) A compound according to claim 20, wherein R^{84} is phenyl, 2-furan, (E)-CH=CH-phenyl, 3,4,5-trimethoxyphenyl, 2,4-difluorophenyl, 2-nitro-4,5-dimethoxyphenyl, 2,4-dinitrophenyl, 2-fluorobenzyl, cyclopentyl, 1-methylbut-3-enyl, n-heptyl, 2-(methylthio)ethyl, 2-ethoxyethyl, $C(CH_3)=CH_2$, 5-methyl-2-pyrazine, 3-furyl, 3-cyanophenyl, 4-acetoxyphenyl, 2-nitro-3-methoxyphenyl, 2-methylthiophenyl, 3-acetoxyphenyl, 2-pyridyl, 2-quinolinyl, 1,5-dimethyl-1H-pyrazolyl, 2-fluoro-5-nitrophenyl, 3-pyridyl,

2-chloro-3-pyridyl, 2-fluorophenyl, 2,3-difluorophenyl, 2,5-difluorophenyl, 2,3-dimethoxyphenyl, 3,5-dimethoxy-4-hydroxy-phenyl, 3-chloro-4-carboxyphenyl, 3-nitro-4-(methylsulphonyl)-phenyl, 3-nitro-4-methoxyphenyl, (E)-CH=CH-(2-nitrophenyl), (E)-CH=CH-(3-nitrophenyl), (E)-CH=CH-(4-nitrophenyl), (E)-CH=CH-(4-chlorophenyl), (E)-CH=CH-(2,3,4-trifluoro-phenyl), (E)-CH=CH-(3-(trifluoromethyl)phenyl), (E)-CH=CH-(4-fluorophenyl), 2-indolyl, 5-fluoro-2-indolyl, 3-fluorophenyl, 3,5-dinitrophenyl, 3-(trifluoromethyl)benzyl, 3-fluorobenzyl, 4-chlorobenzyl, 4-methoxybenzyl, 4-(*iso*-propyl)benzyl, 3-nitrobenzyl, 2-phenoxyethyl, 2-(3,4-dimethoxyphenyl)ethyl, 2-(4-chlorobenzoyl)ethyl, 3-phenoxy-1-propyl, 3-phenyl-1-propyl, 3-benzoylpropyl, dec-9-enyl, 1-methylbut-1-enyl, (2-thiophene)methyl, (3-thiophene)methyl, 2-(3-nitro-4-hydroxyphenyl)ethyl, 3,5-difluorobenzyl, 3,4-methylenedioxybenzyl, 2,6-difluorobenzyl, 4-(*n*-butoxy)benzyl, 3-methyl-1-butyl, pent-4-ynyl, 3-(5-bromo-4-methoxy)thiophene, 3-(5-chloro-4-methoxy)thiophene, 3-methoxy-4-ethoxybenzyl, 4-(benzyloxy)benzyl, 3-(2-thiophene)propyl, hex-5-ynyl, 1-(4-chlorophenyl)cyclopropyl, cyclopentylmethyl, 2-(cyclopentyl)ethyl, cyclohexylmethyl, 2-(cyclohexyl)ethyl, 3-(cyclohexyl)propyl, 1-phenoxyethyl, (E)-C(CH₃)=CH-phenyl, 2-chloro-5-nitrophenyl, methyl, n-heptyl, 2-furyl, 3-furyl, (2-thiophene)methyl, 2-indolyl, 2,4-difluorophenyl, (3-nitro-4-(methylsulphonyl))-phenyl, pent-4-ynyl, 5-methyl-2-pyrazinyl, cyclopentyl, 3-nitro-4-methoxyphenyl, 2-tetrahydrofuryl, 2-pyridyl, 3-pyridyl, 1,5-dimethyl-pyrazol-3-yl, cyclobutyl, 2-methoxyphenyl, 3-nitrophenyl, 4-nitrophenyl, cyclohexyl, 3-nitro-4-methylphenyl, 3-nitro-4-fluorophenyl, (3-thiophene)methyl, 3-chloro-2-benzothiophene, 5-chloro-2-indolyl, but-3-ynyl, 3-cyanophenyl, 2-(acetamido)ethyl, 4-(trifluoromethyl)phenyl, 3-chloro-4-fluorophenyl, 4-fluoro-3-(trifluoromethyl)-phenyl, 4-fluorophenyl, 5-bromo-2-thiophene, 4-methoxyphenyl, 6-methyl-3-pyridyl, 5-nitro-2-furyl, 2-nitrophenyl, (E)-CH=CH-(3-chlorophenyl), 2-thiophene, cyclopropyl, 3-methylphenyl, 2-chlorophenyl, 2-fluorophenyl, 2,5-dichlorophenyl, 3-fluorophenyl, 6-chloro-3-pyridyl, 5-bromo-2-furyl, 3-nitro-2-methylphenyl, 3-chlorophenyl, 3-(tetrahydrothiophene-1-1'-dioxide)methyl, 2-methoxyethyl or 2-(methylthio)phenyl.

35. (Previously presented) A compound according to claim 20, where R⁶⁴ is phenyl or halosubstituted phenyl.

36. (Previously presented) A compound according to claim 20, where R¹ is hydrogen and R⁴ is halo, C₁₋₄alkyl or C₁₋₄alkoxy.

37. (Previously presented) A compound according to claim 20, where X¹ is oxygen.

38. (Previously presented) A compound according to claim 20, where R¹⁵ is selected from a group (1'), (3'), (6') or (10') as defined in claim 20.

39. (Previously presented) A compound according to claim 20, where R⁷ and R⁸ are independently selected from hydrogen, halo, C₁₋₄alkoxy, cyano, trifluoromethyl or phenyl.

40. (Cancelled)

41. (Previously presented) A compound according to claim 20 where R¹ is hydrogen, R⁴ is halo, C₁₋₄alkyl or C₁₋₄alkoxy, X¹ is oxygen, R¹⁵ is selected from a group (1'), (3'), (6') or (10') as defined in claim 20 and R⁷ and R⁸ are independently selected from hydrogen, halo, C₁₋₄alkoxy, cyano, trifluoromethyl or phenyl.

42. (Previously presented) A compound according to claim 41 where R⁶⁴ is phenyl or halosubstituted phenyl.

43. (Previously presented) A compound according to claim 34 wherein R¹ is hydrogen, R⁴ is halo, C₁₋₄alkyl or C₁₋₄alkoxy, X¹ is oxygen, R¹⁵ is selected from a group (1'), (3'), (6') or (10') as defined in claim 20 and R⁷ and R⁸ are independently selected from hydrogen, halo, C₁₋₄alkoxy, cyano, trifluoromethyl or phenyl.

44. (Previously presented) A method of treating colorectal or breast cancer in a warm blooded animal in need of such treatment, which comprises administering to said animal an effective amount of a compound of formula (IID), as claimed in claim 20.